

Title (en)

FINANCIAL SELF-SERVICE EQUIPMENT AND IMPELLER TYPE PAPER MONEY SEPARATION DEVICE THEREOF

Title (de)

FINANZIELLE SELBSTBEDIENUNGSVORRICHTUNG UND LAUFRADARTIGE PAPIERGELDTRENNVORRICHTUNG DAFÜR

Title (fr)

EQUIPEMENT FINANCIER EN LIBRE-SERVICE ET DISPOSITIF ASSOCIÉ DE SÉPARATION DE PAPIER-MONNAIE DE TYPE À IMPULSEUR

Publication

**EP 3032504 A4 20161116 (EN)**

Application

**EP 14833697 A 20140425**

Priority

- CN 201310337536 A 20130805
- CN 2014076202 W 20140425

Abstract (en)

[origin: EP3032504A1] Financial self-service equipment and an impeller type paper money separation device thereof. The impeller type paper money separation device comprises: a delivery impeller (105) which is used for separating paper money; an impeller phase detection sensor (108); a paper money delivery mechanism; and at least one U-shaped sensor (104) which is fixed to the delivery impeller (105) and is used for detecting whether the paper money enters the delivery impeller (105) or not. The U-shaped sensor (104) comprises a signal transmitting end and a signal receiving end, wherein the signal transmitting end and the signal receiving end are located at the same side of the delivery impeller (105); the signal transmitting end and the signal receiving end are spaced at intervals, so as to form the opening end of the U-shaped sensor (104); and the opening end faces the direction in which the paper money enters the impeller (105). The paper money separation device uses the U-shaped sensor (104) for detecting whether paper money is inserted into the impeller (105) or not, so as to control the rotation of the impeller (105), thereby having faster processing speed and higher accuracy than a general optical correlation sensor, so that it is avoided that the paper money deviates from the impeller or is clamped caused by impeller rotation before the paper money is completely inserted into the impeller.

IPC 8 full level

**G07D 9/00** (2006.01); **B65H 29/40** (2006.01)

CPC (source: EP US)

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C-Set (source: EP US)

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3. **B65H 2513/512** + **B65H 2220/02** + **B65H 2220/11**
4. **B65H 2301/4474** + **B65H 2220/02**
5. **B65H 2301/44765** + **B65H 2220/01**
6. **B65H 2511/212** + **B65H 2220/02** + **B65H 2220/11**

Citation (search report)

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- [A] US 4595193 A 19860617 - NAKAMURA KUNIHICO [JP]
- [A] US 4511136 A 19850416 - YAMADA NOBORU [JP], et al
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Designated contracting state (EPC)

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